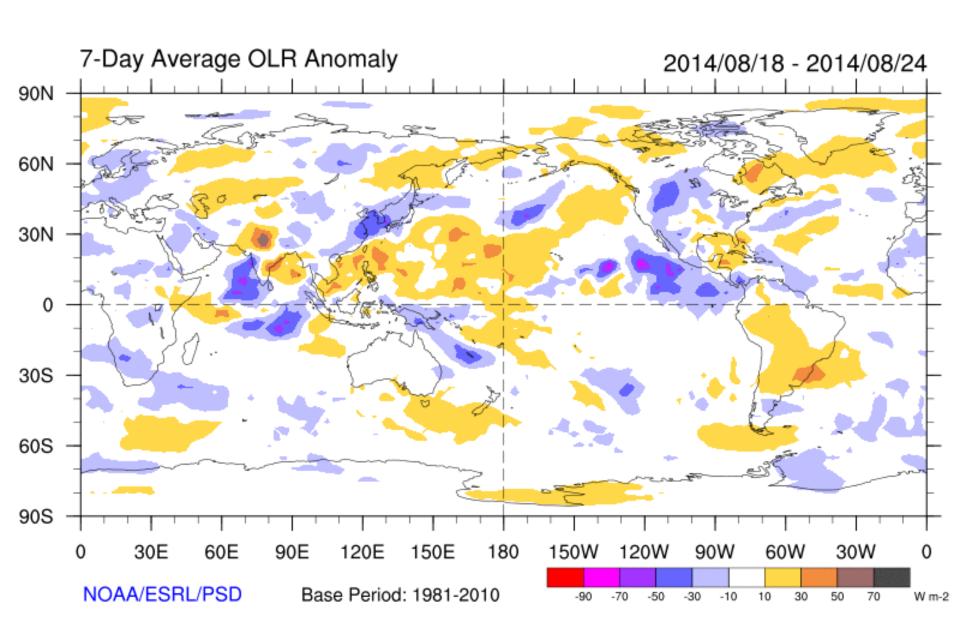
# Global Tropics Hazards And Benefits Outlook <u>August 26, 2013</u>

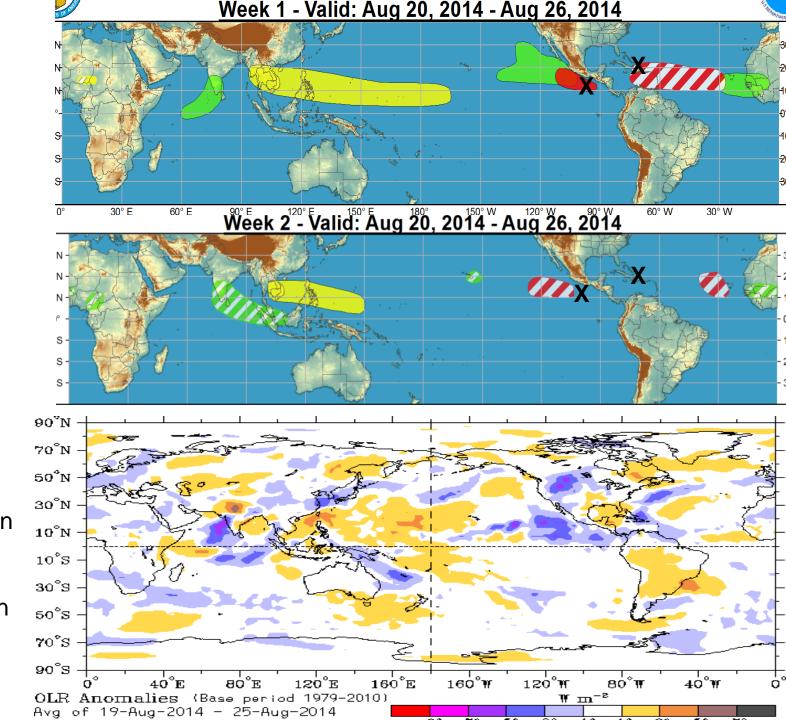
#### Matthew Rosencrans

### <u>Outline</u>

- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts



# Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain

# Synopsis of Climate Modes

#### **ENSO**:

- Current:ENSO-neutral
- Outlook: The chance of El Niño is about 65% during the NH fall and early winter.

#### MJO and other subseasonal tropical variability:

- The MJO remained weak with atmospheric circulation not coherent with a robust MJO. Equatorial Rossby waves and vacillations in the Asian Monsoon are impacting the overall pattern.
- Dynamical model MJO index forecasts generally support continued eastward propagation but a weak signal (GFS is outlier) The statistical tools also support continued MJO activity, although those reflect a weaker signal.

#### **Extratropics:**

• The extended range forecast for the U.S. aligns well with the typical circulation patterns based on the current and forecast phases of the MJO. These include a trend towards abovenormal temperatures across the eastern U.S. and a more active across the central U.S.



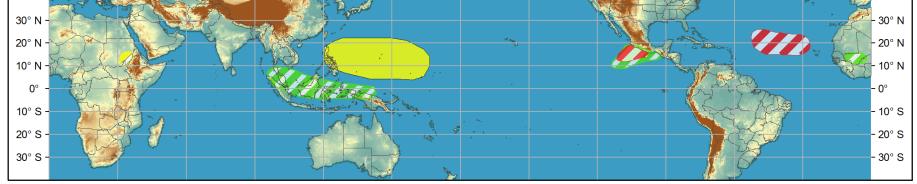
#### Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Sep 03, 2014 - Sep 09, 2014



Confidence Produced: 08/26/2014

High Moderate Forecaster: Rosencrans

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

Above-average rainfall Weekly total rainfall in the upper third of the historical range.

Above-normal temperatures 7-day mean temperatures in the upper third of the historical range.

Below-normal temperatures 7-day mean temperatures in the lower third of the historical range.

Product is updated once per week, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.







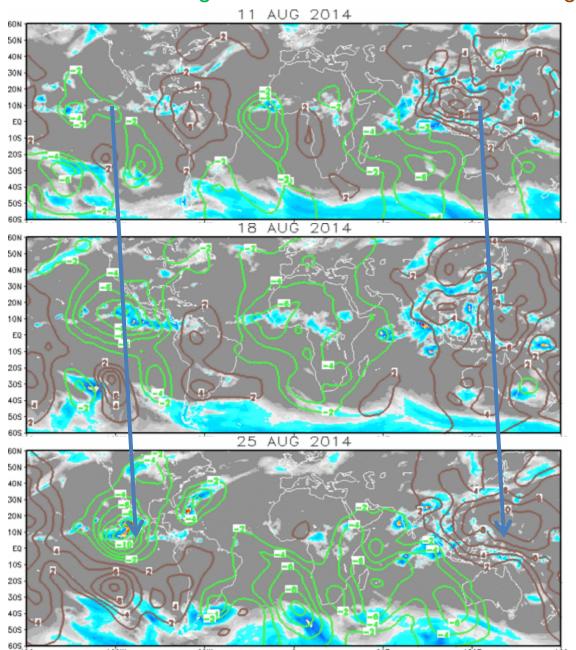




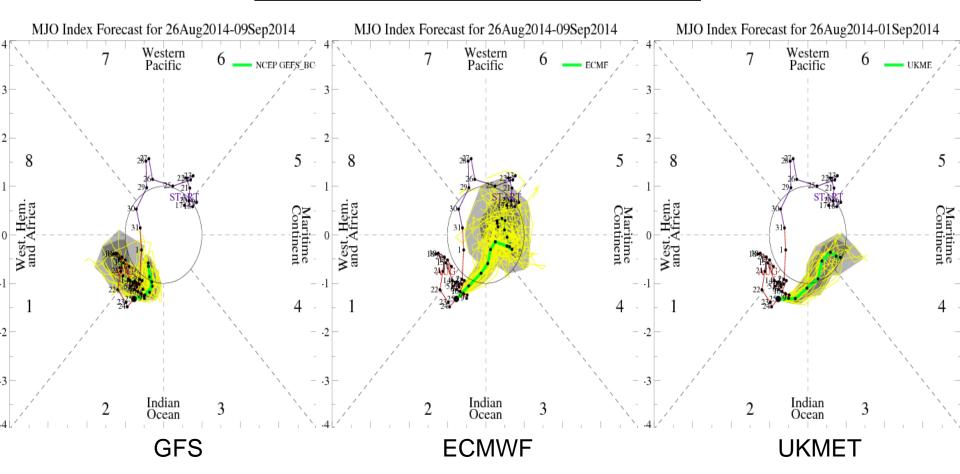


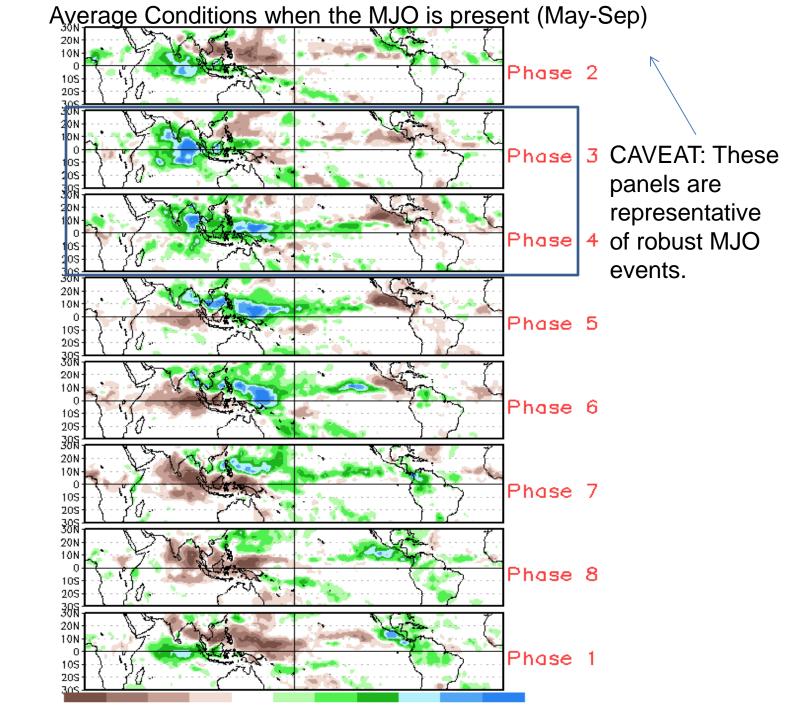
### IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence



## MJO Observation/Forecast

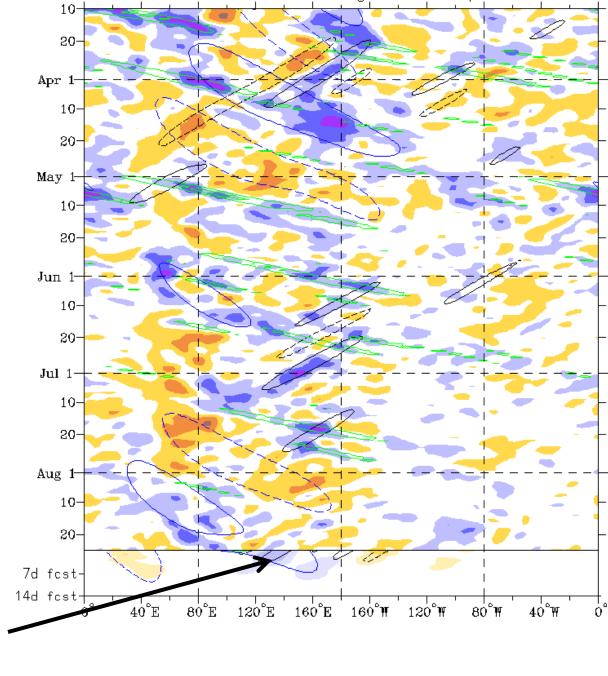




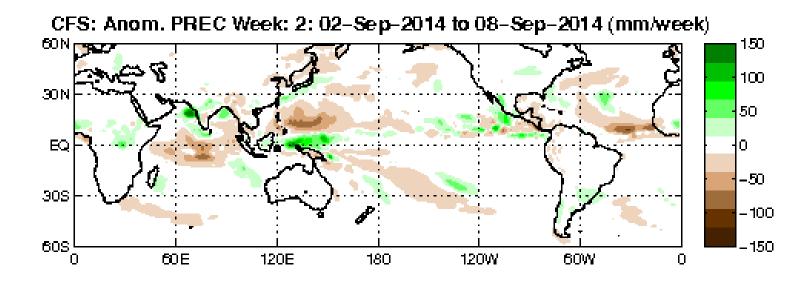
Weak, active phase of the MJO forecast to impact Indian Ocean and Maritime Continent.

Evolving ENSO also contributing.

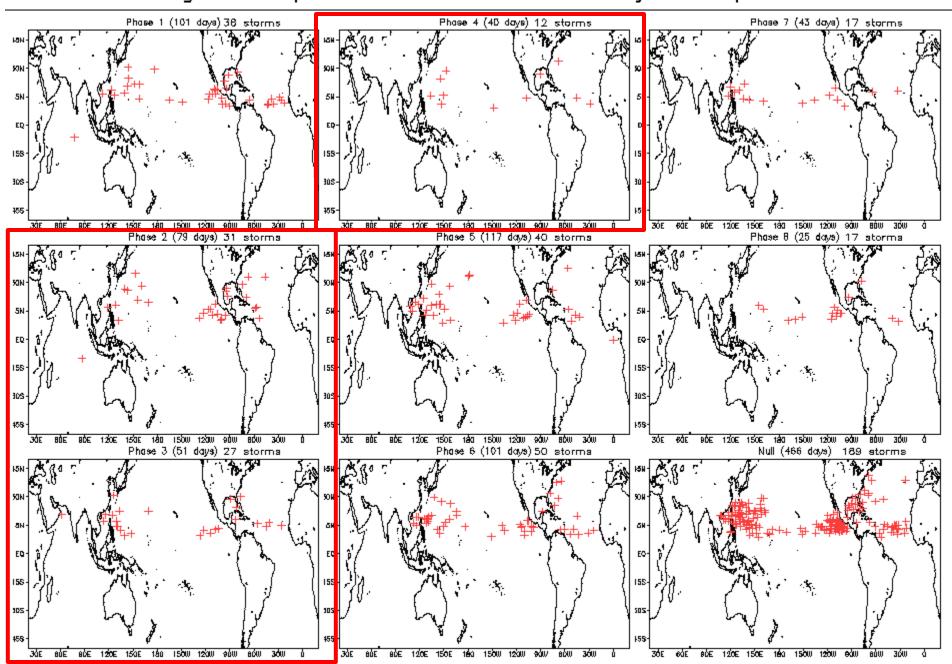
Equatorial Rossby Waves to impact western Pacific/Maritime Continent.

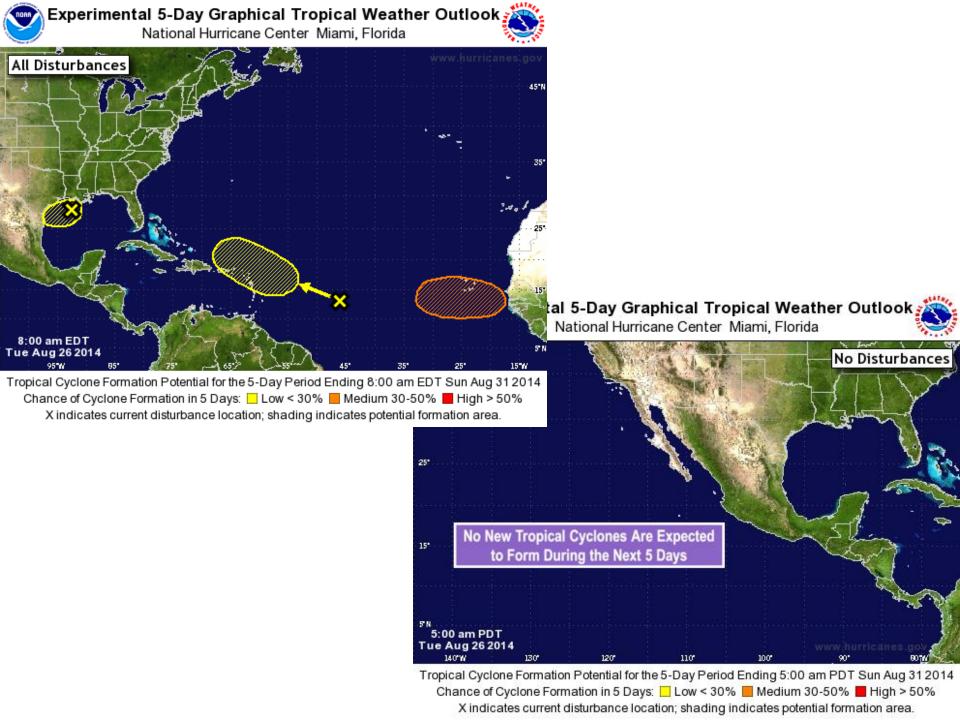


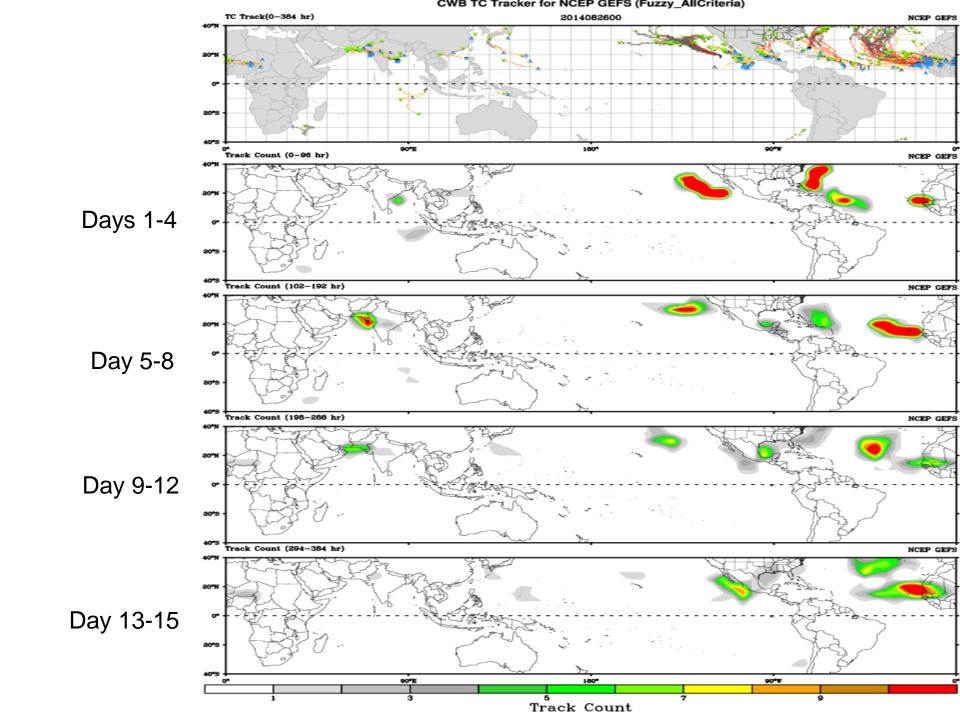
CFS: Anom. PREC Week: 1: 26-Aug-2014 to 01-Sep-2014 (mm/week) 60N PROPERTY 150 100 30 N 50 EQ Ю -50 30S -100 60SL -150 120E 60 E 180 120W 60W 0



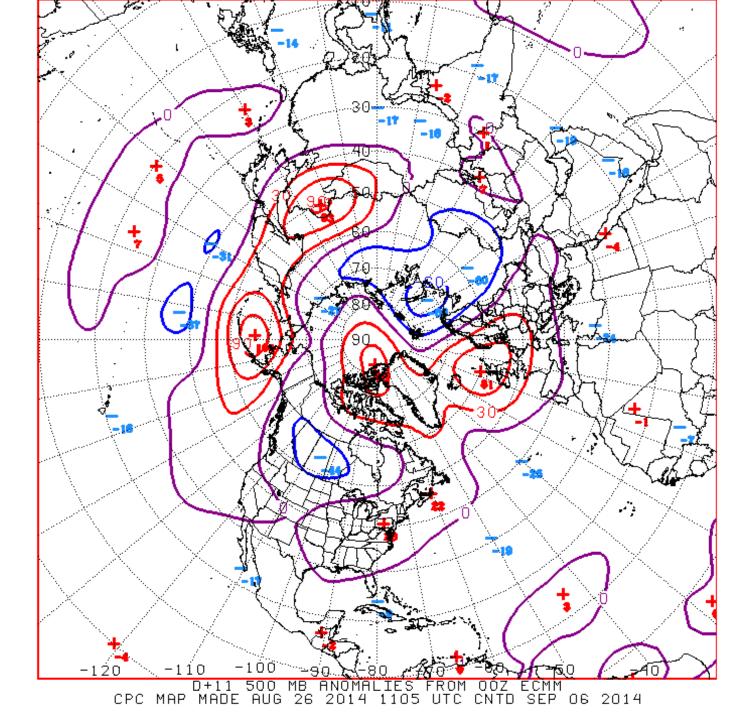
### August Tropical Storm Formation by MJO phase



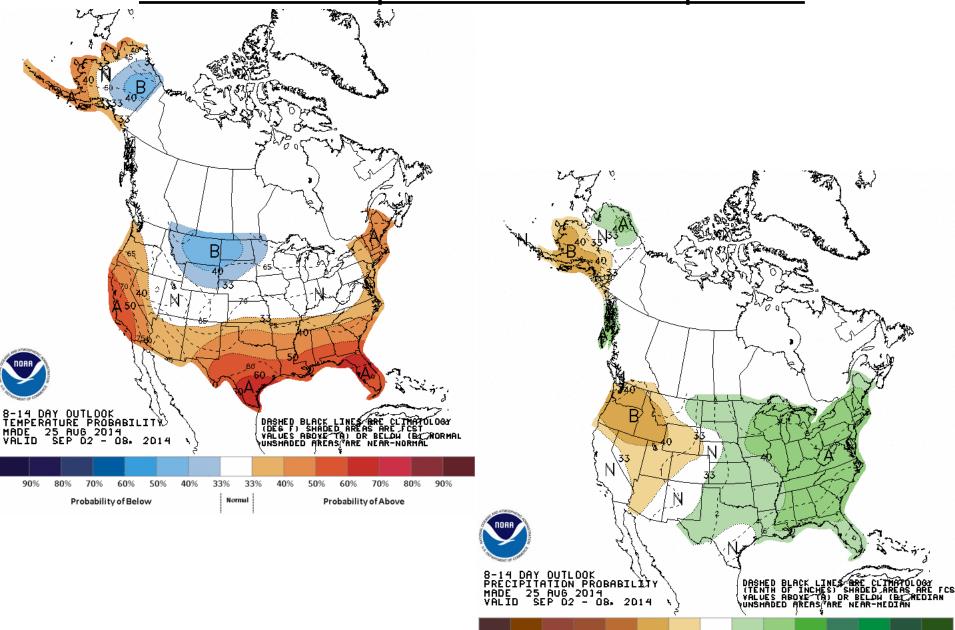




# Connections to U.S. Impacts



Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

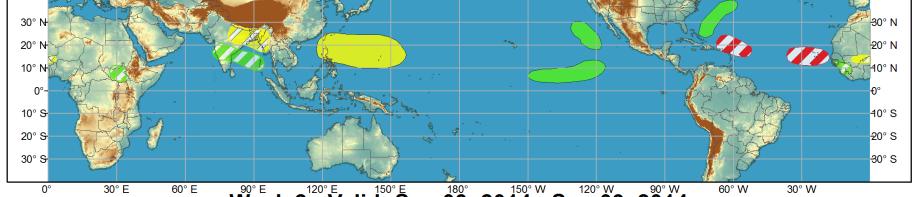
Probability of Above



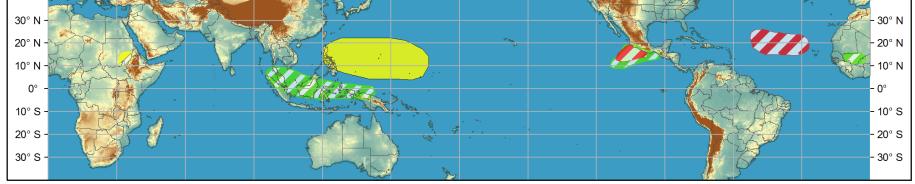
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